

BIGNIO, I.

Perlite. Periodica polytechna chem 3 no.4:279-282 '59. (EPAI 9:6)
(Pearlite)

BIGNIO, Imre; SZEGO, László

What is the situation on the perlite front? Musz elet 16 no.15:4
Jl '61.

1. Mineralimpex.

(Perlite)

BIGNIO, Imre

Suggestions for the Porcelain Factory. Műsz. élet 19 no.3: 4
30 Ja'64.

DOBOSZ, Janusz; EKIERT, Halina; BIGO, Barbara; WALD, Ignacy

Discrepancies of results in the electroencephalographic, pneumo-encephalographic and clinical examination of temporal lobe epilepsy patients. Neurol. neurochir. psychiat. Pol. 15 no.3:409-414 My-Je '65.

1. Z Oddziału Neurologicznego Państw. Szpitala dla Nerw. i Psych. Chorych (Ordynator: doc. dr. I. Wald) oraz pracowni Eeg Instytutu Psychoneurologicznego w Pruszkowie (Kierownik: dr. H. Ekiert).

NORENKO, N.A., inzh.; BIGOTSKIY, V.A.

Effect of overall mechanization and automatically controlled processes on the concentration of operations. Ugol' 38 no.3:38-40
Mr '63. (MIRA 18:3)

1. Donetskii nauchno-issledovatel'skiy ugol'nyy institut (for Norenko). 2. Shakhta "Proletarskaya-Glubokaya" tresta Makeyevugol' (for Bigotskiy).

BIGSHMAN, E. E.

"Metal Bridges on Automobile Roads", published by Ministry of Communal Economy of RSFSR, Moscow, 1948

ZAYAKIN, B.I.; BIGEYEV, A.M.; UZIYENKO, A.M.; Prinimali uchastiye:
TKACHENKO, I.A., inzh.; RABINOVICH, Ye.I., kand.tekhn.nauk;
IVANOVA, N.G., inzh.; BIGTAGIROV, K.K., inzh.

Sulfur liquation in large rimmed steel ingots. Izv. vys. ucheb.
sav.; chern. met. 5 no.7:62-70 '62. (MIRA 15:8)

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy
gornometallurgicheskiy institut.

(Steel ingots--Sulfur content)

BIGU, A.

Let us respect the plan for railroad transportation. p. 3

CONSTRUCTORUL, Bucuresti, Vol 7, No. 316, Feb., 1956

SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, July 1956

CHELARESCU, Al, prof.; NICHITA, O.; MIHUL, A.; PAUNEL, E.; BIGHU, Gh.

Deposit of the white sand in the Miorcan-Hudesti area, a source of raw materials for the fine glass. Studii fis tehn Iasi 12 no.1:67-77 '61.

1. Membru al Comitetului de redactie, Studii si cercetari stiintifice, Fizica si stiinte tehnice (for Chelarescu)

BIGU, GH.

1. "On the Geologic Volcanism in the Western Part of the Metalliferous Mountains," Geolog. Obozr. pp 7-15.
2. "New Data on the Stratigraphy of Sedimentary Deposits of Eastern Bolivia, the First Part," Geolog. Obozr. pp 15-28.
3. "The Problem of the Lower and Upper Limits of the Paleozoic in the Western Cordillera," K. O. Filippov pp 19-26.
4. "The Plateaus of the Higher Part of the Cordillera in the Vicinity of Altiplano," I. O. Filippov pp 27-31.
5. "Contributions to the Study of the Soconusco Volcanic and Tertiary Basins of the Isthmus de San-Quintin Region (South West of Chiapas)," I. O. Filippov pp 32-63.
6. "Preliminary Data Concerning the Stratigraphy of the Plateaus Between the Yucatan and Pecos Valleys," E. V. Vasyurt pp 65-79.
7. "Salvadoran Peaks of the San-Quintin Hill," Aurelio Barrios pp 81-89.
8. "Contributions to the Study of the Discontinuity in the Disposition of Basins," S. K. Kiselev pp 91-100.
9. "Concerning the System of the Geomorphological Sciences," I. O. Filippov pp 101-109.
10. "Geomorphological Observations in the Lower Basin of the Basin," I. O. Filippov pp 111-126.
11. "The Plateaus and Erosion Levels of the Gurgin Caracalans and San-Quintin (The Sector between the Cholejo in the West and Chiapas in the East)," I. O. Filippov pp 127-143.
12. "Plateaus Geomorphological Considerations," Valeria Kiseleva-Kiseleva pp 145-153.
13. "Contributions to the Geomorphological Study of the Bolsones Caves," Silvia Kiseleva pp 155-160 and 161-162.

— 4/2 —

BIHALJI-MERIN, O.

Medieval Yugoslav frescoes. In French. p. 14; THROUGH YUGOSLAVIA.
(Turisticki savez Jugoslavije) Beograd; Vol. 5, no. 1/2, 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress,
Vol. 5, No. 12, December 1956.

BIHALY, A., KADAR, T., NAGY, B.

Effect of antibiotics and vitamin B₁₂ on hog breeding. p. 245. (AGRARTU-DOMANY, Budapest, Hungary), Vol. 6, No. 8, Aug. 1954.

SC: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

"APPROVED FOR RELEASE: 06/08/2000

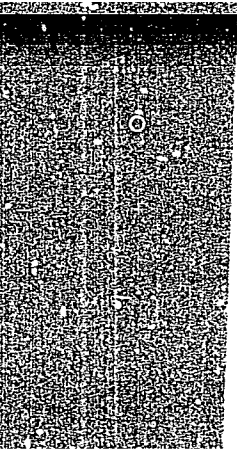
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BIHARI, I.

A generalization of a lemma of Bellman and its application to uniqueness problems of differential equations. In English. p. 81. Vol. 7 No. 1 1956. ACTA MATHEMATICA. Budapest, Hungary

SOURCE: East European Accessions List, (EEAL) Library of Congress
Vol. 6, No. 1 January, 1956

BIHARI, I.

BIHARI, I. Monotonic property of Bessel functions. p. 43.

Vol. 7, no. 1/2, 1956
MATEMATIKAI LAPOK
SCIENCE
HUNGARY

So: East European Accessions, Vol. 5, No. 9, Sept. 1956

BIHARI, I.

Multiplicity in the solution of differential equations of the ordinary first order.

P. 115 (MATHEMATINAI LAPOK) Budapest Vol. 8, No. 1/2, 1957.

SO: Monthly Index of East European Acessions (AEEI) Vol. 6, No. 11 November 1957.

Bihari, I. Researches of the boundedness and stability of the solutions of non-linear differential equations.
Acta Math. Acad. Sci. Hungar. 8 (1957), 261-278.

The author proves various results concerning the boundedness of all solutions and the stability of the trivial solution of equations of the type (*) $\dot{x} = A(t)x + B(t)\varphi(x)$, where $A(t)$, $B(t)$ are continuous for $t \geq 0$ and $\varphi(x)$ is continuous for small $\|x\|$. Among them is the following theorem. If A is constant and all solutions of $\dot{y} = Ay$ are bounded, if $\int_0^\infty \|B(t)\| dt < k \int_0^\infty dt/\omega(t)$, where $\omega(t) \geq \max\{\|\varphi(x)\| : \|x\| \leq t\}$, then all solutions $x(t)$ of (*) are bounded on $t \geq 0$ provided $\|x(0)\|$ is sufficiently small. If $\varphi(0) = 0$ and $\int_0^\infty dt/\omega(t)$ diverges, $x(t) \equiv 0$ is stable. All proofs make use of a previous lemma of the author [same Acta 7 (1956), 81-94; MR 18, 38].

H. A. Antosiewicz (Los Angeles, Calif.)

P. Bihari, L. Oscillation and monotonicity theorems concerning non-linear differential equations of the second order, Acta Math. Acad. Sci. Hungar. 9 (1958), 83-104.

This paper discusses a generalization of a theorem of W. E. Milne [Bull. Amer. Math. Soc. 28 (1922), 102-104] concerning the non-linear differential equation $y'' + \phi(x)f(y) = 0$, where $\phi(x)$ is a positive, continuous, increasing, and bounded function for $x \geq a$, and $f(y)$ is an increasing odd function with $f(y) \in \text{Lip}(1)$ for $|y| \leq b$. It

also discusses extensions of certain comparison theorems of Sturm. The following results are established.

Theorem 1: Suppose that in the non-linear equation $y'' + \phi(x)f(y)h(y') = 0$, (i) $\phi(x) > 0$ is continuous, increasing and bounded for $x \geq a$, (ii) $f(y)$ is an odd non-decreasing function and $f(y) \in \text{Lip}(1)$ for $|y| \leq b$, (iii) $h(u) > 0$ is non-decreasing for $u \leq 0$ and non-increasing for $u \geq 0$, and $h(u) \in \text{Lip}(1)$ for all u ; then the equation has a unique solution with the initial conditions $y(a) = \eta$, $y'(a) = 0$ ($0 < |\eta| \leq b$); this solution exists for all $x \geq a$, oscillates an infinity of times, the amplitudes decrease but do not approach zero, and y' remains bounded. A number of corollaries are also given.

64) Theorem 2: Let $f(x, y, u)$ be defined for $x \geq a$ and for arbitrary y and u , with the following properties: (i)

$f(x, y, u)$ is continuous and $\text{sgn } f(x, y, u) = -\text{sgn } y$; (ii) $f_x(x, y, u)$, $f_y(x, y, u)$, $f_u(x, y, u)$ exist and are continuous; (iii) $\text{sgn } f_x = -\text{sgn } y$; (iv) $f_y(x, y, u) < 0$ and $f_u(x, y, u) > 0$ if $\text{sgn } u = \text{sgn } y \neq 0$, $= 0$ if $y = 0$, < 0 if $\text{sgn } u = -\text{sgn } y \neq 0$ ($x \geq a$); (v) let $f(x, y, u)$ satisfy the Nagumo condition, i.e., let a continuous positive function $\Phi(u)$ ($u \geq 0$) exist satisfying the conditions $|f(x, y, u)| \leq \Phi(|u|)$, $\int_0^\infty u/\Phi(u) du = +\infty$; then there exists for $x \geq a$ a unique solution of the general form of the explicit equation $y'' = f(x, y, y')$, with the initial conditions $y(a) = \eta \neq 0$, $y'(a) = 0$, and oscillating an infinity of times.

Theorem 3: If $h(u)$ in Theorem 1 is an even function, then, considering equal values of y on a half-wave (in the graph of the solution), the slope $|y'|$ is greater to the right of the maximum than to the left of it. Consequently, if the abscissae of the points where the half-wave considered meets the x -axis, and of the maximum, are respectively x_1, x_2, x_m , then the symmetrical of the left-hand "quarter" wave to the ordinate at x_m will lie entirely above the right-hand "quarter" wave; hence its area is greater, and finally, $x_m - x_1 > x_2 - x_m$.

Theorem 4 shows that under the conditions of Theorem 3, except that the restriction that $h(u)$ is even is omitted, the areas of successive half-waves form a steadily de-

creasing sequence.

Theorem 5 is concerned with the extension of one of Sturm's comparison theorems to the equations $y'' + \phi(x)/\psi(y)h(y') = 0$, $\eta'' + \varphi(x)/\psi(\eta)h(\eta') = 0$.

Further discussion of the areas of successive half-waves of the solution of $y'' + \phi(x)/\psi(y)h(y') = 0$, assuming the conditions of Theorem 5, is given in Theorem 6 and the remaining sections.

R. G. Cooke (London)

BIHARI, I.; KELEMEN, M.

Remarks on the sound detonation phenomenon: sound condensation, sound rarefaction, sound prolongation, etc. Periodica polytech eng 4 no.2: 155-160 '60. (EEAI 10:4)

1. Department of Mathematics (No.I), Polytechnical University,
Budapest.
(Sound)

BIHARI, Imre (Budapest); FREY, Tamas (Budapest); PETHO, Arpad (Budapest)

Data on a problem of gas dynamics; a characteristic peripheral value problem with discontinuities in the peripheral values. Mat kut kozl MTA 5 no.1/2:179-202 '60. (KEAI 10:1)

1. Technische Hochschule, Budapest (for Bihari, Frey). 2. Zentralforschungsinstitut fur Chemie, Budapest (for Petho) (Gases)

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EWI(d)/FCG(w)/BDS AFFTC IJP(C)

S/044/63/000/003/017/047

AUTHOR: Bihari, I.

(H)

52

TITLE: On the nonlinear equation $u'' + a(t)u + q(t)f(u^2) = 0$

PERIODICAL: Referativnyi Zhurnal, Matematika, no. 3, 1963, 45, Abstract
3B202 (Magyar Tud. Akad. Mat Kutato Int. Kozl., v. 6, no. 3, 1961,
287-290; English, summary in Russian).

TEXT: Two theorems on boundedness of the solutions of a nonlinear second-order equation are proved. In the first theorem we assume that the functions $a(t) > 0$ and $q(t)$ are continuous when $t \geq 0$; moreover $a(t)$ does not decrease and

$$\int_0^{\infty} (|q(t)| / \sqrt{a(t)}) dt < \infty.$$

while the continuous function $f(u)$ is positive and does not decrease when $u > 0$; in addition,

$$f(0) = 0, \int_0^{\infty} \frac{du}{f^2(u) + u} = +\infty.$$

Then any solution of the equation given in the title of this article is bounded and the expression $u^2(t) + [u'(t)]^2/a(t)$ tends toward a finite limit when $t \rightarrow \infty$.
Card 1/2/

BIHARI, I.

Asymptotic behaviour of the solutions of certain second order ordinary differential equations perturbed by a half-linear term. Mat kut kozl MTA 6 no.3:291-293 '61.

1. Technical University, Budapest.

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S/044/62/000/007/022/100
C111/C333

AUTHOR: Bihari, I.

TITLE: On periodic solutions of certain second order ordinary differential equations with periodic coefficients

PERIODICAL: Referativnyy zhurnal, Matematika, no. 7, 1962, 44, abstract 7B213. ("Acta math. Acad. scient. hung.", 1961, 12, no. 1-2, 11-16)

TEXT: Considered is the equation

$$y'' + \varphi(x) f(y) h(y') = 0. \quad (1)$$

Special attention is dedicated to the special case .

$$y'' + \varphi(x) y \frac{1}{1 + \varepsilon y^2} = 0. \quad (2)$$

Let $\varphi(x)$ be a positive, continuous function with the period T ; let $\varphi(x)$ increase for $-1/2 T \leq x \leq 0$, let $\varphi(x)$ decrease for $0 \leq x \leq 1/2 T$; $\varphi(-x) = \varphi(x)$; $\min \varphi(x) \cdot T^2 > n^2 \pi^2$ (n being integer). Then (2) possesses for $n = 1$ a periodic solution with the period $2T$ which contains two
Card. 1/2

BIHARI, Imre

Asymptotic behavior of the solutions of $u'' + uq(x)f(u, u') = 0$
equation. Mat lapok 13 no.1/2:196 '62.

BIHARI, I.

Extension of a theorem of Armellini-Tonelli-Sansone to the
nonlinear equation $u'' + a(t)f(u) = 0$. Mat kut kosl MTA 7 Ser.A
no.1/2:63-68 '62.

BIHARI, Imre

Deformation of corrugated plates under given load. Pt.1.
Mat kut kozl MTA 7 Series B no.4:537-575 '62[publ. '63].

BIHARI, Imre

An oscillation theorem concerning the half-linear differential equation of second order. Mat kut kozl MTA 8 series A no. 3: 275-280 '63('64)

The asymptotic behavior of a system of nonlinear differential equations. Ibid.:475-488

BEKESSY, Andras; BIHARI, Imre; MEGYERI, Jeno

Determination of cableway arcs from their geometric data. Mat. kut.
kozl. MTA 8 Series B no.4:617-630 '63(publ. '64).

1. Ministry of Transportation and Postal Affairs, Budapest (for Megyeri).

BIHARI, Imre

Deformation of corrugated plates under a given load. Pt.2. Mat. kut
kozl MTA 8 Series B no.4:645-659 '63(publ. '64).

BIHARI, Lasslone

Calculations of profitability of investments in the food industry. Elelm ipar 14 no.1:27-31 Ja '60.

1. Elelmesesugyi Minissterium, Mussaki Foosstaly.

BIHARI, MAGDA

7 Microdetermination of boron by the pH measurement of
mannitoboric acid Ferenc Csapó, Magda Bihari, Maria
Giles and Róbert Székely (Távközlési Kutató Int., Budapest,
Hungary) Z. anal. Chem. 151, 273 (1953) For det. small
quantities of boron advantage can be taken of the connection
between pH and conductance. Thus, in a solution freed from dis-
solved CO₂ by bubbling N through it, the quantity of H₂BO₃
present can be taken from the pH after the addition of a suit-
able quantity of mannitol W. L. Hall

HUNGARY

BIHARI-VARGA, Magdolna, and GERO, Sandor, Third Clinic of Internal Medicine at the Medical University (Orvostudományi Egyetem III. sz. Belklinika) in Budapest.

"Role of Intimal Mucoïd Substances in the Pathogenesis of Atherosclerosis. Investigation on the Interacting Components in the Mucopolysaccharide-Beta-Lipoprotein Complex Formation in Vitro"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Vol 29, No 3-4, 8 Jun 1966, pp 273-281.

Abstract: [English article; authors' English summary, modified] The relations between the composition of aortic mucopolysaccharides and their complex-forming property were studied by turbidimetry. The interaction was studied between beta-LP and individual MPS fractions obtained by different fractionating methods. Heparitin sulfate was the only component in the intimal MPS preparations to precipitate serum beta-LP at pH 7.4. In the formation of soluble complexes at pH 8.6 heparitin sulfate and chondroitin sulfate were found to take part. 26 references, including 4 Hungarian, 2 German, and 20 Western. (Manuscript received 27 Jul 1965).

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BIHARI, O.

Conference on prosecutors' general supervisory powers over legality. p. 686.
Vol 7, no. 11, Nov. 1955. PRZEGLAD PAPIERNICZY. Lodz, Poland

So: Eastern European Accession. Vol 5, no. 4, April 1956

BIHARI, Odon, dr.; GODON, Frigyes, dr.

Experiences with the treatment of cancer of the eyelids. Magy.
onkol. 7 no.4:215-227 D '63.

1. Orszagos Onkologiai Intezet.

BIHARI, Otto; GALAMBOS, Arpad

High-speed photography and filming. Gepgyartastechna 1 no.3:99-103
Je '61.

1. Koho- es Gepipari Miniszterium Mezogepfejlesztési Intezet.

SZADECZKY-KARDOSS, Elemer; ZSEBOK, Zoltan, dr.; RUSZNYAK, Istvan, dr.;
ANTALFFY, Gyorgy, dr.; BIHARI, Otto, dr.; CHOLNOKY, Laszlo, dr.;
GRUBER, Jozsef, dr.; HAY, Laszlo, dr.; KESZTYUS, Lorand, dr.;
MAGYARI, Andras, dr.; ORTUTATY, Gyula, dr.; PERENYI, Imre, dr.;
PETRI, Gabor, dr.; POLINSZKY, Karoly, dr.; RAPCSAK, Andras;
TORO, Imre, dr.; ZAMBO, Janos, dr.

Peace to the world! An appeal by the Committee on Science of
the National Peace Council. Term tud kozl 6 no.6:241 Je
'62.

1. Orszagos Beketanacs Tudomanyos Bizottsaganak elinok (for Szadeczky-Kardoss).
2. Orszagos Beketanacs Tudomanyos Bizottsaganak titkara (for Zsebok).
3. Magyar Tudomanyos Akademia elnoka (for Rusznyak).
4. Szegedi Tudomanyegyetem rektora (for Antalffy).
5. Pecs Tudomanyegyetem allamjogi karanak dekanja (for Bihari).
6. Pecs Orvostudomanyi Egyetem rektora (for Cholnoky).
7. Budapesti Muszaki Egyetem rektora (for Gruber).
8. Marx Karoly Kozgazdasagtudomanyi Egyetem rektora, Budapest (for Hay).
9. Kossuth Lajos Tudomanyegyetem rektora, Debrecen (for Kesztyus).
10. Agrartudomanyi Egyetem rektora (for Magyar).
11. Eotvos Lorand Tudomanyegyetem rektora (for Ortutay).
12. Epitoipari es Kozlekedesi Muszaki Egyetem rektora (for Perenyi).
13. Szegedi Orvostudomanyi Egyetem rektora (for Petri).
14. Veszpremi Vegyipari Egyetem dekanja (for Polinszky).

(To be continued)

~~BIHARI~~, Odon, dr.; GULBERT, Anna, dr.; FENYES, Gyorgyne, dr.; SUGAR, Janos, dr.;
VENKEI, Tibor, dr.

Role of the P32 concentration test in early diagnosis of malignant
tumors of the skin. Magy. radiol. 14 no.4:227-228 J1 '62.

1. Orszagos Onkologia Intezet kozlomenye (Igazgato: Vikol Janos dr.).
(PHOSPHORUS radioactive) (SKIN NEOPLASMS diag)

BIHARI, S.

"The Production of Martin Steel" p. 199 (~~Elet Es Tudomány~~, Vol. 8 No. 7, February, 1953)

East European Vol. 3, No. 3
SO: Monthly List of ~~Accessions~~ Accessions, Library of Congress, March ¹⁹⁵⁴ ~~1953~~, Uncl.

BIHARI, Sandorne

Complying with technologic instructions results in more, better and cheaper shoes. Munka 4 no.12:17-19 D '54.

1. Boripari Dolgozok Szakszervezete Munkaber- es Termelési Osztalya vezetoje.

BIHARINE VARGA, Magdolna; NYILASI, Janos

Data on the hydrolysis of polymyxine-B and its copper complex.
Magy kem folyoir 68 no.7:290-293 J1 '62.

1. Eotvos Lorand Tudomanyegyetem Altalanos es Szervetlen-Kemiai
Tanszeke, Budapest; Magyar Tudomanyos Akademia Szervetlen-Kemiai
Kutatocsoportja; Gyogyszeripari Kutato Intezet.

HUNGARY

DEVENYI, Tibor, BIHARI-VARGA, Magdolna, JAKAB, Lajos, GERGELY, Janos;
Medical University of Budapest, III. Medical Clinic (Budapesti Orvostudo-
manyi Egyetem III. sz. Belklinikaja).

"Preparation of Mucopolysaccharides From the Walls of Vessels by a Modi-
fication of the Dyrbye and Kirk Method."

Budapest, Kiserletes Orvostudomány, Vol XV, No 3, June 1963, pp 326-328.

Abstract: [Authors' Hungarian summary] A modification of the Dyrbye and
Kirk method was developed by the authors. By means of this modification,
protein-free preparations containing acidic as well as neutral mucopoly-
saccharides can be obtained from the aorta. 9 Western, 2 Hungarian re-
ferences.

BIHARI-VARGA, Magdolna, dr. (Budapest, VIII., Mezo Imre u. 17)

A method for the quantitative paper chromatographic determination of carbohydrates. Acta chimica Hung 38 no.1:55-56 '63.

1. 3d Medical Clinic, Medical University, Budapest.

HUNGARY

BIHARI-VARGA, Magdolna, Dr, GERGELY, Janos, Dr, GERO, Sandor, Dr; Medical University of Budapest, III. Medical Clinic (Budapesti Orvostudományi Egyetem, III. Belgyógyászati Klinika).

"The β -Lipoprotein-Binding Component of Mucopolysaccharides of the Intima."

Budapest, Orvosi Hetilap, Vol 104, No 30, 28 July 63, pages 1401-1404.

Abstract: [Authors' Hungarian summary modified] Using the turbidimetric procedure of Amenta and Waters, the authors investigated the β -lipoprotein (β -LP) binding ability of mucopolysaccharides (MPS) of different origin and their fractions. A relation was found to exist between the β -LP binding ability and the hexuronic acid content of the MPS preparations investigated. During fractionation of MPS compounds isolated from the aorta intima, it was shown that heparitine sulphate was the only fraction able to form a complex with β -LP. Based on previous and current investigations it is suggested that plasma lipoid deposits start with the building of the heparitine sulphate- β -LP complex. It is possible that investigations of the interaction between MPS of the intima and β -LP by other techniques (electrophoresis), will demonstrate other components in the formation of the complex. In the lipoid composition of the deposits other, local biochemical processes take part as well, of course. 25 Western, 4 Hungarian references.

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BJHARI-VARGA, Magdolna , dr.

Study of the relation of the beta-lipoprotein content of human sera to the degree of its combination with aortic mucopolysaccharides in vitro. Orv. hetil. 106 no.8:353-354 '65

1. Budapesti Orvostudományi Egyetem, III. Belklinika (igazgató: Gero, Sándor, dr.).

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ACC NR: AT6025120

SOURCE CODE: HU/2502/65/045/003/0219/0230

AUTHOR: Bihari-Varga, Magdolna -- Bikhari-Varga, M. (Doctor; Budapest)

ORG: III Medical Clinic, Medical University of Budapest (III. Belklinika, Budapesti Orvostudományi Egyetem)

TITLE: Precipitation complexes formed from mucopolysaccharides and serum beta-lipoprotein with the incorporation of metal ions

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 45, no. 3, 1965, 219-230

TOPIC TAGS: polysaccharide, serum, chemical precipitation, positive ion, complex molecule, solubility, biochemistry

ABSTRACT: Precipitation complexes, formed from mucopolysaccharides of different origin (mostly prepared from human aorta) with serum β -lipoprotein, in the presence of metal ions, have been studied. It was found in the physiologically most important calcium complexes that the degree of precipitation and the amount of Ca^{2+} bound in the precipitate varied in proportion to the number of acidic groups present in the mucopolysaccharide. At higher pH values, the precipitates are more soluble. The solubility of the precipitates is affected by the presence of Na^+ , K^+ and NH_4^+ ions. When Ca^{2+} is replaced by another bivalent metal ion, the order of decreasing precipitation at pH 7.4 is: Ca^{2+} Mg^{2+} Sr^{2+} Ba^{2+} , and at pH 5.0, it will be: Co^{2+} Ni^{2+} Ca^{2+} Mg^{2+} Sr^{2+} Ba^{2+} . The author thanks Mrs. L. Toth and Miss E. Keszthelyi for their assistance in carrying out the experiments. Orig. art. has: 8 tables. /Orig. art. in Eng./JPRS: 34,161/

SUB CODE: 06, 07 / SUBM DATE: 13Jul64 / ORIG REF: 003 / OTH REF: 044

L 00705-67

ACC NR: AT6035473

SOURCE CODE: HU/2502/66/047/003/0291/0299

AUTHOR: Nyilasi, Janos--Nilashi, Ya. (Doctor; Budapest); Bihari-Varga, Magdolna--
Bikhari-Varga, M. (Doctor; Budapest); Orsos, Pirooska--Orshosh, P. (Budapest) 42

ORG: Chair for General and Inorganic Chemistry, L. Eotvos University, Budapest 871

TITLE: Metal complexes of peptides. Part 5: Investigation of the hydrolysis and
oxidation of dipeptide-metal complexes

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 47, no. 3, 1966, 291-299

TOPIC TAGS: intermolecular complex, hydrolysis, reaction rate, oxidation, paper
chromatography, spectrometry, chemical composition

ABSTRACT: The rate of hydrolysis of Gly-Gly, α -Ala-Gly, Leu-Gly, Gly- α -Ala, Gly-Leu, α -Ala- α -Ala, Gly- β -Ala, α -Ala- β -Ala, β -Ala-Hist, Gly-Tyr, Tyr-Gly, α -Ala-Tyr, Tyr- α -Ala, Leu-Tyr, and Gly-Trypt dipeptides and their metal (Cu, Ni, Co) complexes at 100°C was investigated with the aid of paper-chromatographic techniques and spectrometry. The composition of the complexes formed in an alkaline medium was determined and the effect of complex formation on the alkaline hydrolysis and oxidative desamination was investigated. There was a correlation between the composition of the complexes and the tendency of the peptides to undergo hydrolysis and oxidation. Orig. art. has: 1 figure and 3 tables. [JPRS: 36,464]

SUB CODE: 07 / SUBM DATE: 28Jul65 / ORIG REF: 006 / OTH REF: 021

Card 1/1 mjs

0921 2191

L 47258-66 EWP(j) RM
ACC NR: AP6034691

SOURCE CODE: HU/0005/66/000/003/0119/0122

AUTHOR: Nyilasi, Janos; Biharine, Varga Magdolna and Orsos, Piroska, Department of General and Inorganic Chemistry (Általános és Szervetlen Kémiai Tanszék) of Eotvos Lorand University of Sciences (Eotvos Lorand Tudományegyetem), Budapest. 3/8

"Metal Complexes of Peptides. V. Study of the Hydrolysis and Oxidative Deamination of Dipeptide-Metal Complexes"

Budapest, Magyar Kémiai Folyóirat, Vol 72, No 3, Mar 66; pp 119-122.

Abstract: A study was made of the complex formation of various peptides in alkaline media. Copper-, nickel- and cobalt ions were used for the formation of the complexes. The composition of the complexos was investigated and the effect exerted by the formation of the complex on the alkaline hydrolysis and oxidative deamination of the peptides was studied. A relationship was found between the composition of the peptides and its tendency to hydrolysis and oxidation. Orig. art. has 1 figure and 3 tables. [JPRS: 36,002]

TOPIC TAGS: complex molecule, organometallic compound, hydrolysis

SUB CODE: 07 / SUBM DATE: 26 Jun 65 / ORIG REF: 004/ OTH REF: 019

Card 1/1 2C

0921 1520

NYILASI, Janos; BIHARINE VARGA, Magdolna; ORSOS, Piroska

Metal complexes of peptides. Pt.2. *Magy kem folyoir* 71 no.2:
49-50 F '65.

1. Chair of General and Inorganic Chemistry of Lorand Eotvos
University, Budapest, and Research Group of Inorganic Chemistry
of the Hungarian Academy of Sciences, Budapest. Submitted
April 21, 1964.

BIHARY, K.

New specifications of the Hungarian State Railroads for the design of 1, 435-mm. gauge tracks laid in curves. p. 370.

(KOZLEKEDESTUDOMANYI SZEMLE, Budapest, Vol. 4, no. 10, Oct. 1954.)

SD: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, No. 2, Jan. 1955,
Uncl.

"APPROVED FOR RELEASE: 06/08/2000

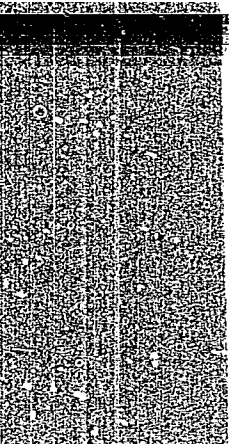
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CIA-RDP86-00513R000205310008-2"

BIHARY, Karoly, okleveles mernok, fotanacsos, foelado

Railroad concrete sleepers. Kozl tud sz 15 no.2:72-77 F '65.

1. Department of Railways of the Ministry of Transportation and
Postal Affairs, Budapest.

BIHELLER, E.

"The Slovak National Conference of Employees in the Stone Industry."

p. 164 (Stavba) Vol. 4, no. 6, June 1957
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

RIHELLER, Otto, ins.

To improve the handling of industrial fertilizers. Agrochem 2 no.3:
51-53 '62.

1. Ministerstvo zemědělství, lesního a vodního hospodářství, Praha.

BIHOI, Gheorghe, ing.

Fluorescent lamps used for illuminating tramcars and trolley busses.
Rev transport 10 no.3:127-132 Mr '63.

ZBARCEA, I.; POPP, N.; BIHOIU, Elisabeta

Phytogeographic studies in view of the elaboration of Danube
Delta Vegetation Maps. Meteorologia hidrologica 6 no.4:318-
325 '61.

HIRJEU, Gh., ing.; POPP, N.; BIHOIU, Gh., ing.

Hydrogeology of the Danube Delta. Problem of phreatic waters
and their chemistry. Meteorologia hidrol gosp 6 no.3:205-214
'61.

CZECHOSLOVAKIA

Application. Ceramics. Glass. Binding materials.
Concrete.

Abs Jour : Ref Zhur - Khimiya, No 5, 1959, No. 16154

Author : Biheller, E.

Inst : Not given

Title : Low Quality Brick

Orig Pub : Stavba, 1958, 5, No 6, 191-192

Abstract : Reasons for not meeting quality specifications in the manufacture of brick are listed as follows: utilization of the untreated raw materials, existence of mechanical stresses in the materials as the result of interaction between H_2O and CaO , and others. -- Ya. Satunovskiy

Card 1/1

14-32

BIHET, O.

Belgian research concerning the resistance of structural steel against brittleness.
p. 37.

ZVARACSKY SBORNIK. (Slovenska akademie vied) Bratislava, Czechoslovakia. Vol. 8,
no. 1, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 10, Oct. 1959. Uncl.

ROMANIA

MURESAN, I., Professor; CALOGHERA, G.; MARCU, M.; POP, Z.; CRISAN, G.;
BIHOIU, I.; RAICU, I., Extern.

Surgical Clinic II in Timisoara (Clinica II-a Chirurgicala,
Timisoara) - (for all)

Timisoara, Timisoara Medicala, No 1, Jan-Jun 63, pp 27-32

"Our Experience in the Surgery of the Hydatid Cyst of the Liver."
(Report presented to the Timisoara Society of Medical Sciences -
Surgery Section - 5 April 1961.)

7

BIIAZOV, Iordan, ml.nauch.sutr., inzh.

Pneumatic and electropneumatic controllers. Tekhnika Bulg 11 no.1;
24-27 '62

1. IE pri Bulgarskata akademiia na naukite.

ROMANIA/Farm Animals. Large Horned Cattle

Q-3

Abstr Jour : Ref Zhur - Biol., No 11, 1958, No 49981

Author : ~~Bile. Gh.~~

Inst : Ministry of Agriculture

Title : Foods Used on State Farms for the Diets of Milch Cows in
Order to Improve Milk Yields.

Orig Pub : Rev. Minister. gospod. agric. stat, 1957, No 1, 13-16

Abstract : Scientific-economic tests performed within a comparative study of various diets showed that when one group of cows was fed a larger amount of crushed yeast, while the other group received beet tops silage, a decreased milk fat content and a negative Ca balance was found to be present in the cows of the first group.--V.A. Kanzyuba.

Card : 1/1

BATKOV, A.; BILAZOV, I.; DIMOV, D.; MILOVANOV, K.

Possibilities and economic aspects in the construction
of small hydroelectric power plants at certain irrigation
canals and smaller dams. Izv Inst energ BAN 5:263-290 '63.

DASHKOVSKIY, A.F., kand.tekhn.nauk [deceased]; DLIN, F.S.; BILETSKIY, G.V.;
DROZDOVSKIY, M.M.

Ways for the modernisation of drying rooms. Bum. i der. prom.
no.1:39-41 Ja-Mr '65.

(MIRA 18:10)

BALANDIN, P.S.; BILSHEV, A.G.; KAGARMANOV, N.F.; POBEDONOSTSEV, V.S.;
KHAMZIN, Sh.Kh.

Core recovery from producing horizons using DGNU "Ufimets" core
assemblies. Burenie no.1:20-24 '64. (MIRA 18:5)

1. Ufimskiy neftyanoy nauchno-issledovatel'skiy institut.

MIKULA, Kazimierz; . BEKA, Jerzy; BUDZI, Przemysław

Results of studies on the cyclotron type dedusting fan.
Przegl naukowo tech AGH no.7(8)-2/ '64

1. Department of Heat Management, School of Mining and
Metallurgy, Krakow.

BEJAK, Marek, mgr. inż., st. asystent

Selected applications of the optical method in precision measurements. Przegł mech 24 no.2:36-38 25 Ja '65.

1. Department of Strength of Materials and Constructions, Technical University, Warsaw.

BIJASIEWICZ, Jerzy, mgr inż.; DMOJSKI, Ignacy, mgr inż.

Impressions from a stay in the Soviet Union. Energetyka
Pol 17 no.2:61-63 F '63.

L 18925-63

BDS

P/0020/63/000/005/0155/0158

ACCESSION NR: AP3001642

AUTHOR: Bijasiewicz, Jerzy (graduate engineer); Dmowski, Ignacy (graduate engineer) H6

TITLE: Impressions from a visit to Soviet plants.

SOURCE: Energetyka, no. 5, 1963, 155-158

TOPIC TAGS: electric power plant, transmission line, hydro plant, steam plant

ABSTRACT: Authors give a general description of electric power plants in the Dnieper and Volga regions. General data on transmission lines and distribution networks are also given. The smaller plants of 3 megawatt capacity in the Kiev region supply only about 15% of the total power, while 85% of it is supplied by the larger plants. Transmission lines in this region are of 220 and 330 kilovolts. Electric power is divided into 110 and 35 kilovolts. Low voltage is 380/200 volts. During the past two years, 1500 km of 35 to 330 kilovolt transmission lines have been built. Synchronous condensers are used for reactive power. Their capacity is 330 MVA, and they are hooked up to 110 kilovolt lines. Steam turbines have a capacity of 25 to 50 MW and are fed by boilers producing steam at the rate of

Card 1/2

L 18925-63

ACCESSION NR: AP3001642

170 to 230 tons/hour. The largest power plant in the Volga region is the 2582 MW hydro plant named for the 22nd Party Congress. It has 21 water turbines of 115 MW each and has been in operation since 1960. Power from this plant is to be transmitted over 220, 500 and 800 kilovolt overhead transmission lines. Distribution voltages are the same as for the Dnieper power plant. General layouts of power plant locations are given in Figures 1, 2 and 3. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: EE

NO REF SOV: 000

OTHER: 000

Card

2/2

BIJASIEWICZ, Jerzy, mgr inz.

Electric power engineering in the largest brown coal
basin. Przegl techn 84 no.36:3 8 S '63.

BIJASIEWICZ, L.

BIJASIEWICZ, L. Measurements of grounding for telecommunication. p. 102

Vol. 8, no. 4, Apr. 1956
PRZEGLAD KOLEJOWY ELEKTROTECHNICZNY
TECHNOLOGY
Warszawa, Poland

So: East European Accession Vol. 6, no. 2, 1957

BIJASIEWICZ, L.

"Applying instruments for automatic regulation of the transmission dynamics in telecommunication."

p. 253 (Przegląd Kolejowy Elektrotechniczny) Vol. 9, no. 11, Nov. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

BIJEDIC, Mirjana, d-r; MASTILOVIC, Borislav, d-r; DZODZE, Radmila, d-r

Contribution to the clinical picture of Marcus Gunn phenomenon.
Med. arh., Sarajevo 13 no. 4: 117-125 J1-Ag '59.

1. Ocna klinika Medicinskog fakulteta u Sarajevu, sef: prof. d-r
Momcilo Vucicevic.

(REFLEX)

(EYELIDS physiol.)

BIJEDIC, Mirjana, dr.

Ocular and orbital injury with an air gun pellet. Med. arh. 17
no. 6:41-49 N-D '63.

1. Očna klinika Medicinskog fakulteta u Sarajevu (Upravnika:
Prof. dr Vladimir Cavka).

BIJELIC, Ante, dr.

Diabetes in children in the Croatian Socialist Republic in
the past 10 years. Lijecn. vjesn. 85 no.9:965-972 '63

1. Iz Internog odjela Dječje bolnice u Zagrebu.

YUGOSLAVIA

BIJELIĆ, Dr Ante, Department of Internal Medicine (Interni Odjel), Children's Hospital (Dječja Bolnica), Zagreb.

"Diabetes among Children in Croatia over the Past Ten Years."

Zagreb, Liječnički Vjesnik, Vol 85, No 9, September 1963, pp 965-972.

Abstract: [Author's English summary modified] The number of children treated for diabetes mellitus, while low, has been increasing steadily as in other countries. Better diagnosis may also be a factor in the increasing incidence, and there is no control over marriages between diabetics. The disease is most common in children between the ages of 11 and 14, and more girls are affected than boys. The clinical picture is more pronounced, and therapy is more difficult, than in adults. Insulin is almost always necessary. Mortality in hospitals during the period covered was 6.18 percent, but other deaths doubtless occurred other than in hospitals. The 178 cases involved are analyzed.

Five tables, seven US and British and five Yugoslav references of recent date.

1/1

SKREB, Nikola (Zagreb); BIJELIC, Nada (Zagreb); MIKIC, Fedor (Zagreb)

Studies on the transfer of rat balstocysts. Biol glas 13 no.4:
359-369 '60.

1. Zavod za biologiju Medicinskog fakulteta, Institut za biologiju
Sveucilista i Biostatisticki odjel Centralnog higijenskog zavoda,
Zagreb. 2. Clan Urednistva, "Bioloski glasnik; Periodicum biologorum"
(for Skreb).

(RATS)

BIJELIC, N.; SKREB, N.

Beginning of the differentiation in the embryos of white rats analyzed by means of X-ray irradiation. Bul sc Youg 7 no.1/2:13 F-Ap '62.

1. Zavod za opcu biologiju Medicinskog fakulteta, Zagreb.

*

BIJI, Mircea

Development of Rumanian regions and its influence on the
population structure. Probleme econ 17 no.8:142-158 Ag '64.

1. Director General, Central Statistical Directorate.

BIJI, Mircea

Present problems of statistics. Probleme econ 16 no.1:3-15 Ja '63.

1. Director general al Directiei Centrale de Statistica

BIJI, Mircea

Total social product and problems of expanded socialist reproduction. Probleme econ 16 no.11:3-18 N°63.

1. Director General al Directiei Centrale de Statistica.

BIJI, Mircea

~~Amortization of fixed assets. Probleme econ 17 no.7:102-111 JI '64.~~

1. Chairman of Central Committee for Inventorying and Re-evaluating
Fixed Assets.

BIJI, Mircea

"Rumanian industry, 1944-1964." Reviewed by Mircea Biji.
Probleme econ 17 no.10:126-131 O '64.

1. Director General, Central Directorate of Statistics.

BIJKAY, T.

Hemorrhage of the nasopharynx and pharynx. Orv.hetil. 91 no.20:
633-635 14 My '50. (CLML 19:2)

1. Division for Ear and Throat Diseases, St. John Hospital (Head
Physician -- Dr. Tibor Bajkay).

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310008-2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310008-2"

Country	: Poland	H-28
Category	: Chemical Technology. Chemical Products and Their Applications. -- Food Industry.	
Abs. Jour.	: R. Zh. - Khim., No. 11, 1959	40543
Author	: Jakubowski, J. and <u>Bijok, E.</u>	
Institut.	: Research Institute of the Polish Industry	
Title	: The Calculation of Cheese Yield as a Function of the Chemical Composition of the Milk	
Orig Pub.	: Prace Inst Przemysl Mleczarsk, 5, No 2, 19-30 (1958)	
Abstract	: Data from the chemical analysis of the milk and finished cheese in the case of 61 experimental cheeses [meaning of original not quite clear] produced at various Polish cheese factories are used as a basis for the comparison of formulas developed for the calculation of cheese yield from a specified quantity of milk. Two formulas based on the nonfat solids content of the milk and on the casein content, respectively, are recommended for practical application. From authors' summary	
Card:	1/1	

BIJOK, K.

Cyto-embryologic studies on the species *Crambe abyssinica* Hoch.
Acta soc botan Pol 31 no.1:119-134 '62.

1. Zakład Botaniki, Wyższa Szkoła Rolnicza, Olsztyn.

BIJUNAS, B.; GEMSKIS, N.; SOROCKINAS, G.; JOCAITE, V., red.; ANAITIS, J.,
tekhn. red.

[Wages in industry, building, transportation, communication
systems and loading-unloading] Darbo apmokejimas pramoneje,
statyboje, transporte, rysių sistemoje ir už pakrovimo-
iskrovimo darbus. Vilnius, Valstybinė politinės ir mokslinės
literatūros leidykla, 1962. 387 p. (MIRA 16:5)
(Lithuania--Wages)

BIK, I.

Benghalyerskiy Uchyet v Kolkmosafi (Bookkeeping accounting on collective farms.) (By) I.Bik. G.
Yalchinskiy, S. Krasanov, (ET Al)

2 ... Moskya, Ogiz Sel'Kmosbiz, 1946.

286P. Tables.

At head of Title: Uchebniki Uchednyye Posebiya Dlya
Pocgtovk, S. Wa. Macroy Massoyoy Kvalifinatsis ..

BIK, I.K. (Novosibirsk)

Snow in warm weather. Prieda 48 no.6:113 Jo '59.
(MIRA 12:5)

(Novosibirsk--Snow)

BIK,

Khimiya
POLAND/Chemical Technology - Synthetic Polymers. Plastics.

H-29

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 83481

Author : Bik, K.

Inst : -

Title : The Emulsion and Suspension Polymers of Vinyl Chloride.

Orig Pub : Chemik, 1958, 11, No 1, 5-9.

Abstract : The current methods of emulsion and suspension polymerization of vinyl chloride are described as well as the properties of the polymers prepared and the technology of their processing.

Card 1/1

- 50 -

BIK, Kazimierz

Suspension polymerisation of polyvinyl chloride. Polimery
tworzy wielk 7 no.7/8:242-243 JI-Ag '62.

1. Zaklad Naukowo-Badawczy, Zaklady Chemiczne, Oswiecim.

BIK, Kazimierz

Precipitation block mass polymerization of polyvinyl chloride.
Polimery twors wielk 7 no.7/8:244 J1-Ag '62.

1. Zaklad Naukowo-Badawczy, Zaklady Chemiczne, Oswiecim.

26

BIK N

Adsorption of Water Vapor and Dilute HCl Solutions on Mica. (In Russian.) N. V. Biki, V. I. Gol'danskii, and N. M. Chirkov. *Doklady Akademii Nauk SSSR* (Reports of the Academy of Sciences of the USSR), v. 61, Aug. 1, 1948, p. 672-674.

Results of investigation of the above are charted and discussed in connection with the light they shed on catalysis in polymolecular adsorbed layers and on the electrical conductivity of the adsorbed films.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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ABADZHIEV, P.; BIK, N.

Controlled hypotension in cardiovascular surgery. Khirurgia, Sofia
14 no.2/3:230-231 '61.

(HEART SURGERY anesth & analg)
(HYPOTENSION CONTROLLED)